

**ABSTRACT OF THE DISCLOSURE**

Disclosed is an apparatus for preventing the loss of a portable telephone using a bluetooth communication and the control method thereof capable of preventing the loss of the portable telephone. According to the control method, the portable telephone periodically measures a power level of a radio frequency received from an earphone when a loss prevention mode is determined, and detects a calling state between the portable telephone and the earphone. The portable telephone transmits a warning signal data to the earphone if the power level of the radio frequency received from the earphone is below a predetermined level in a state that the calling state between the portable telephone and the earphone is detected. The earphone generates a warning sound if the warning sound signal is received from the portable telephone during a bluetooth radio communication with the portable telephone.